

ABSTRACT OF THE DISCLOSURE

A seal cartridge for a centrifugal pump includes a housing that fits within a conventional stuffing box of the pump and has a cylindrical internal surface receiving the shaft. A pair of annular grooves are provided internally of the housing adjacent respectively opposite ends thereof. Each
5 groove receives an O-ring that runs in contact with the sleeve when the shaft rotates. The sleeve, housing and O-rings define an annular chamber through which water is circulated to cool and lubricate the O-rings. The water is pressurized to cause the O-rings to deform and seal against the
10 sleeve.